

WHAT IS CLAIMED IS:

1. An image verification system comprising an image generation device and a first image verification device wherein said image generation device includes:

5 image data generation means for generating image data; and

first verification data generation means for generating first verification data for said image data using first information, and

10 wherein said first image verification device includes:

verification means for verifying whether said image data is altered or not by using said image data, said first verification data, and said first  
15 information; and

second verification data generation means for, if said image data is not altered, generating second verification data for said image data by using said image data and second information.

20 2. The image verification system according to claim 1, wherein said first verification data generation means generates said first verification data by using a hash function and a predetermined  
25 calculation.

3. The image verification system according to

claim 1, wherein said second verification data generation means generates said second verification data by using a hash function and a public key cryptography.

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4. The image verification system according to claim 1, wherein, if said image data is altered, said second verification data generation means inhibits generation of said second verification data.

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5. The image verification system according to claim 1, wherein said first image verification device comprises a memory storing a correspondence relationship between said first information and said second information.

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6. The image verification system according to claim 1, wherein said first information is ID information for identifying said image generation device.

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7. The image verification system according to claim 1, wherein said second information is a secret key of a public key cryptography system.

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8. The image verification system according to claim 1, wherein said image verification system further

comprises a second image verification device, and said second image verification device includes verification means for verifying whether said image data is altered or not by using said image data, said second  
5 verification data, and third information corresponding to said second information.

9. The image verification system according to claim 8, wherein said second information is a secret  
10 key of the public key cryptography system and said third information is a public key of the public key cryptography system.

10. The image verification system according to  
15 claim 8, wherein said second image verification device is a server computer having said first image verification device as a client.

11. The image verification system according to  
20 claim 1, wherein said image generation device is an electronic apparatus provided with an image pickup unit.

12. The image verification system according to  
25 claim 11, wherein said image generation device is a digital camera, a digital camcorder, or a scanner.

13. An image verification system comprising an image generation device; a first device; and a second device wherein said image generation device includes:

5 image data generation means for generating image data; and

first verification data generation means for generating first verification data for said image data using first information,

wherein said first device includes:

10 transmission means for transmitting said image data and said first verification data to said second device, and

wherein said second device includes:

15 verification means for verifying whether said image data is altered or not by using said image data, said first verification data, and said first information; and

20 second verification data generation means for, if said image data is not altered, generating second verification data for said image data by using said image data and second information.

14. The image verification system according to claim 13, wherein said first verification data  
25 generation means generates said first verification data by using a hash function and a predetermined calculation.

15. The image verification system according to claim 13, wherein said second verification data generation means generates said second verification data by using a hash function and a public key cryptography.

16. The image verification system according to claim 13, wherein, if said image data is altered, said second verification data generation means inhibits generation of said second verification data.

17. The image verification system according to claim 13, wherein said second device comprises a memory storing a correspondence relationship between said first information and said second information.

18. The image verification system according to claim 13, wherein said first information is ID information for identifying said image generation device.

19. The image verification system according to claim 13, wherein said second information is a secret key of a public key cryptography system.

20. The image verification system according to claim 13, wherein said second device is an IC card or a

storage medium with a microprocessor.

21. The image verification system according to  
claim 13, wherein said second device is a server  
5 computer having said first image verification device as  
a client.

22. The image verification system according to  
claim 13, wherein said image verification system  
10 further comprises an image verification device, and  
said image verification device includes verification  
means for verifying whether said image data is altered  
or not by using said image data, said second  
verification data, and third information corresponding  
15 to said second information.

23. The image verification system according to  
claim 22, wherein said second information is a secret  
key of the public key cryptography system and said  
20 third information is a public key of the public key  
cryptography system.

24. The image verification system according to  
claim 22, wherein said image verification device is a  
25 server computer having said first device as a client.

25. The image verification system according to

claim 13, wherein said image generation device is an electronic apparatus provided with an image pickup unit.

5           26. The image verification system according to claim 25, wherein said image generation device is a digital camera, a digital camcorder, or a scanner.

10           27. An image verification device, comprising:  
verification means for verifying whether image data is altered or not by using said image data, first verification data for said image data, and ID information for identifying an image generation device that has generated said image data; and

15           generation means for, if said image data is not altered, generating second verification data for said image data by using said image data and second information.

20           28. The image verification device according to claim 27, wherein said generation means generates said second verification data by using a hash function and a public key cryptography.

25           29. The image verification device according to claim 27, wherein said second information is a secret key of a public key cryptography system.

30. The image verification system according to claim 27, wherein, if said image data is altered, said generation means inhibits generation of said second verification data.

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31. The image verification device according to claim 27, wherein said first image verification device comprises a memory storing a correspondence relationship between said first information and said second information.

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32. An image verification method, comprising:  
a verification step of verifying whether image data is altered or not by using said image data, first verification data for said image data, and ID information for identifying an image generation device that has generated said image data; and

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a generation step of, if said image data is not altered, generating second verification data for said image data by using said image data and second information.

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33. The image verification method according to claim 32, wherein in said verification data generation step, said second verification data is generated by using a hash function and a public key cryptography.

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34. The image verification method according to claim 32, wherein said second information is a secret key of a public key cryptography system.

5           35. The image verification method according to claim 32, wherein, if said image data is altered, in said generation step, generation of said second verification data is inhibited.

10           36. A storage medium storing a program for implementing the image verification method according to any one of claims 32 to 35.